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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,508	01/20/2004	Shigeru Sugaya	7217/71467	1464
	7590 08/27/2007 VID, LITTENBERG,		EXAMINER	
KRUMHOLZ	& MENTLIK		CHOU, ALBERT T	
600 SOUTH AVENUE WEST WESTFIELD, NJ 07090			ART UNIT	PAPER NUMBER
,			2616	
			MAIL DATE	DELIVERY MODE
			08/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/760,508	SUGAYA, SHIGERU	
Office Action Summary	Examiner	Art Unit	
	Albert T. Chou	2616	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 136(a). In no event, however, may a reply but will apply and will expire SIX (6) MONTHS for the, cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).	
Status	•	•	
1)⊠ Responsive to communication(s) filed on 20 J	lanuary 2004.		
	s action is non-final.		
3) Since this application is in condition for allows	ance except for formal matters,	prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application	า	•	
4a) Of the above claim(s) is/are withdra		•	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,2,4,12,13 and 20</u> is/are rejected.		•	
7) Claim(s) <u>3,5-11 and 14-19</u> is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin		·	
10)⊠ The drawing(s) filed on <u>20 January 2004</u> is/are			
Applicant may not request that any objection to the	=		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E			
Priority under 35 U.S.C. § 119	•		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 119	(a)-(d) or (f).	
1. Certified copies of the priority documen	its have been received.	1	
2. Certified copies of the priority documen	nts have been received in Applic	ation No	
3. Copies of the certified copies of the price	ority documents have been rece	eived in this National Stage	
application from the International Burea	au (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a lis	t of the certified copies not rece	ived.	
•	•		,
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summ		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai 5) Notice of Inform		
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	ar atom opinoution	

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DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 20 is rejected under 35 U.S.C. 101 because the claimed invention is directed to "a computer-readable program" *per se*, which is considerable non-statutory subject matter (see MPEP 2106.IV.B.1(a) and USPTO Interim Guidelines pp. 50-57).

In order to get claim 20 in compliance with the USPTO Interim Guidelines regarding statutory subject matter eligibility, a change to, for example, "A computer-readable storage medium storing computer-executable instructions for executing a radio communication process in a radio communication environment in which a plurality of adjacent radio networks have overlapping service areas, said instructions, when executed, comprising:" is required providing that "A computer-readable storage medium storing computer-executable instructions for executing a radio communication process in a radio communication environment in which a plurality of adjacent radio networks have overlapping service areas" is disclosed in the specification.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites "when a new radio communication device is detected, <u>an</u> <u>authentication verification is performed between said new radio communication device</u> <u>and</u>, when said authentication is successful, said new radio communication device is registered in said connection list; and when said authentication fails, said new radio communication device is registered in said non-connection list." It is not clear what entity or entities are involved when an authentication verification is performed.

Furthermore, claim 1 recites "<u>a</u> connecting <u>communication device</u>", "<u>a</u> non-connecting <u>communication device</u>", "<u>a</u> surrounding radio <u>communication device</u>", and "<u>a</u> new radio <u>communication device</u>". The use of terminology "<u>communication device</u>" should be consistent if they refer to the same particular communication device.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

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only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 2, 4, 12, 13 and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent Application Pub. No. 2003/0063619 A1 by Montano et al. (hereinafter "Montano").

Regarding claims 2, 12 and 20, Montano teaches a radio communication device, a radio communication method and A computer-readable storage medium storing computer-executable instructions for executing a radio communication process for operation in a radio communication environment in which a plurality of adjacent radio networks have overlapping service areas, comprising, [Figs. 3, 13 & 14]:

communication means for communicating radio data [Fig. 3; Devices 321-325 are wireless devices which communicate with each within Network 300; pars. 0008, 0014];

control means for controlling radio data communication of said communication means [Fig. 3; Devices 321-325 are wireless devices which control communication with other wireless devices within Network 300; pars. 0008-0014];

notification means for notifying an existence within a service area of said communication means [Figs. 3 &13, steps 1325, 1330; if a new device receives no signal, it will assume that there is no network and will start a new network with itself as the coordinator and send out a new beacon to notify its existence within a service area; pars. 0216-0219];

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terminal detection means for detecting an existence of another radio communication device within said service area of said communication means [Figs. 3 &13, steps 1305, 1310, 1315, 1320, 1335; a new device will check to see whether it hears a beacon from an existing network; Abstract, pars. 0055, 0216-0223]; and

connection management means for managing connection/non- connection of said other radio communication device detected within said service area [Fig. 13, step 1340; Fig. 14, steps 1405, 1410, 1415, 1420, 1430; the device performs an association with the coordinator of the network (another network device) by requesting to join the connection or non-reconnection if all beacons are assigned; pars. 0221, 0224, 0226-0230]

Regarding claims 4 and 13, Montano teaches a radio communication device and a method, wherein:

said notification means notifies the existence of the radio communication device by transmitting a beacon signal with a predetermined frame period via said communication means [Figs. 3 &13, steps 1325, 1330; if a new device receives no signal, it will assume that there is no network and will start a new network with itself as the coordinator and send out a new beacon to notify its existence within a service area; pars. 0216-0219]; and

said terminal detection means detects the existence of another radio communication device by receiving said beacon signal from said communication means [Figs. 3 &13, steps 1305, 1310, 1315, 1320, 1335; a new device will check to see

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whether it hears a beacon from an existing network; Abstract, pars. 0055, 0216-0223].

Allowable Subject Matter

4. Claims 3, 5-11 and 14-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - US Patent No. 7,120,129 to Ayyagari et al. disclose "System And Method For Achieving Zero-Configuration Wireless Computing And Computing Device Incorporating Same"
 - US Patent No. 5,577,168 to Haas et al. disclose "Beacon Based Packetized
 Cellular System With Real-Time Processing"
 - US Patent No. 5,301,357 to Thompson discloses "Method And System
 Method For Handling Improper Registrations"

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6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Albert T. Chou whose telephone number is 571-272-

6045. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chi H. Pham, can be reached on 571-272-3179. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Albert T. Chou

August 20, 2007

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